





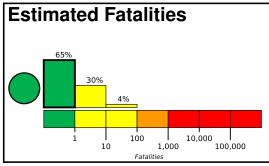
Created: 1 day, 1 hour after earthquake

PAGER

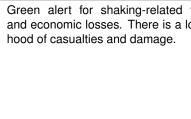
Version 4

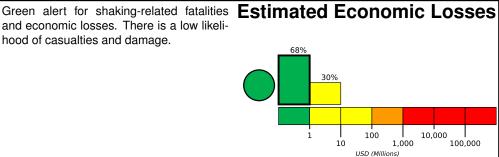
M 5.6, 20 km NNE of Tocopilla, Chile

Origin Time: 2023-12-21 16:21:52 UTC (Thu 13:21:52 local) Location: 21.9084° S 70.1486° W Depth: 62.9 km



and economic losses. There is a low likeli-





Estimated Population Exposed to Earthquake Shaking

ESTIMATED POPULATION EXPOSURE (k=x1000)		_*	675k*	224k	26k	0	0	0	0	0
ESTIMATED MODIFIED MERCALLI INTENSITY		I	11-111	IV	V	VI	VII	VIII	IX	X+
PERCEIVE	SHAKING	Not felt	Weak	Light	Moderate	Strong	Very Strong	Severe	Violent	Extreme
POTENTIAL DAMAGE	Resistant Structures	None	None	None	V. Light	Light	Moderate	Mod./Heavy	Heavy	V. Heavy
	Vulnerable Structures	None	None	None	Light	Moderate	Mod./Heavy	Heavy	V. Heavy	V. Heavy

^{*}Estimated exposure only includes population within the map area.

Population Exposure

71.2°W 0.0°W Iguique 20.6°5 ||| 21.8°S Tocopilla Calama 22.9°S 11

PAGER content is automatically generated, and only considers losses due to structural damage. Limitations of input data, shaking estimates, and loss models may add uncertainty.

population per 1 sq. km from Landscan **Structures**

Overall, the population in this region resides in structures that are resistant to earthquake shaking, though vulnerable structures exist. The predominant vulnerable building types are adobe block and rubble/field stone masonry construction.

Historical Earthquakes

		-		
Date	Dist.	Mag.	Max	Shaking
(UTC)	(km)		MMI(#)	Deaths
2001-07-24	279	6.3	V(36k)	1
1987-03-05	276	7.5	VII(46k)	1
1981-06-21	183	5.7	VII(6k)	10

Recent earthquakes in this area have caused secondary hazards such as landslides that might have contributed to losses.

Selected City Exposure

from GeoNames.org

MMI	City	Population
٧	Tocopilla	24k
IV	Calama	143k
Ш	Iquique	227k
Ш	Antofagasta	310k

bold cities appear on map.

(k = x1000)

Event ID: us7000lkpg https://earthquake.usgs.gov/earthquakes/eventpage/us7000lkpg#pager